Metal and Water Finder

Contents ..... Page 1

Important Notes ..... Page 2

Overview ..... Page 3

Main Unit ..... Page 4

Parts ..... Page 6

Assembly ..... Page 7

Setup ..... Page 10

Getting Started ..... Page 14

How to Determine and locate Target ..... Page 18

How to Determine Target Depth ..... Page 20

The operating in high voltage areas would limit the results and performance

The cell phone signal interferes with the device signal, so turn off the cell phone while operating

Don't operate two devices with same method of search at the same place

Don't store in high temperature or high humidity

Disconnect the batteries before long time storage

The operator Must remove any metals that might affect the search operation. eg:Rings,wrist watch, belt....

Any attempt to tamper with the device or unapproved maintenance would void the warranty.

For best power endurance and reliability, use high quality batteries.

- The user must practice before starting the detection operations and discoveries.
- Store in Cool and dry place 15-40 C 5%-75% humidity

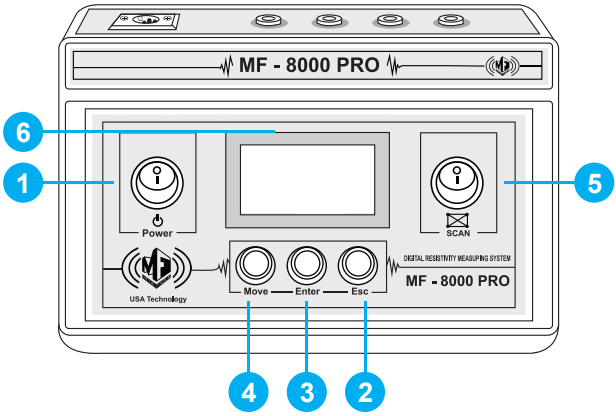
Read & Understand The User's manual before using this device

(MF 8000 PRO) is a professional detection device. It works with geophysical application technology to measure the soil electronic resistance levels to determine the target location such as burials, gold, cavity, treasures to extended depths.
(MF 8000 PRO) apply the accurate automatic measureing settings to identify the targets underground directly on the graphic screen. automatic result
Each material and metal has a unique resistance value distenguish it from other materials and metals. then underground materials interact with the soil forming a electrical field (or electriacal resistance), each metal has its own resistance different from other metals, and voids have resistance also and water as well.
The device depends on precise geophysical identification for electrical resistance levels to detect and locate the targets underground.
the device has a four power outputs. The probes planted in the soil connected to the outputs to distribute the waves through the ground.
after powering the device, the automatic measuring process will start between the power poles to locate materials and metals in the search area.

After great experiments we've reached to the concept of controlling the wave length and width besides the transmitted frequencies from the device to the ground , Therefore the user could select the specified search distance and depth easily and precisely up to 90 %.
This technology works for the first time now with MWF Products .

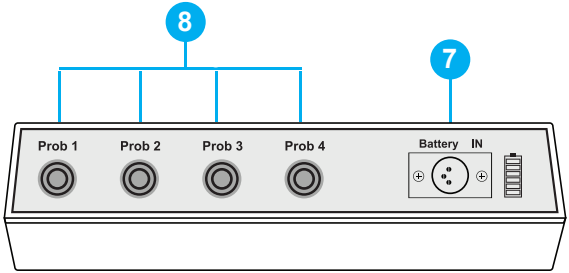
Search Operation:	Search for Gold, Metals , Treasures, Water and Voids.
Search System:	Automatic measurement for soil electrical resistance levels, to identify the metal and other targets resistance.
Operating Processor:	Microcontroller
Processing Type:	Measure and analyse the electrical resistance level and the pole pool (IP) AutoScan.
Search Depth Program:	70m , Depth is determined automatically
Search Area Program:	1250 m^2

Front View



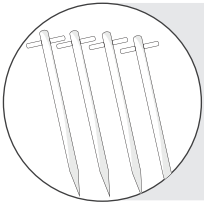
1. Power Switch (ON/OFF)
2. Escape and Restart Button (Esc)
3. Confirm and Enter Button (Enter)
4. Navigation and Selection Button (Move)
5. Start the probes scan Button (SCAN)
6. Display

Back View



7 Battery IN jack

8 Electrecity Power Output for Geo Scan

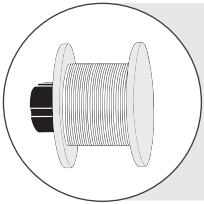


Stainless Steel Probes

Stainless Steel Probes : Rigid, Rustproof, and highly conductive.
Planted in the ground to connect the Device waves to the earth for the geophysical scans.

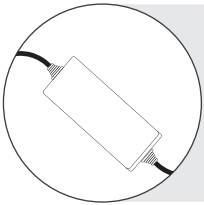
Battery Pack

Battery Pack: Output voltage 14.8v Li-ion, 4 cells, 2700 mA
Battery Life : 9 hours endurance



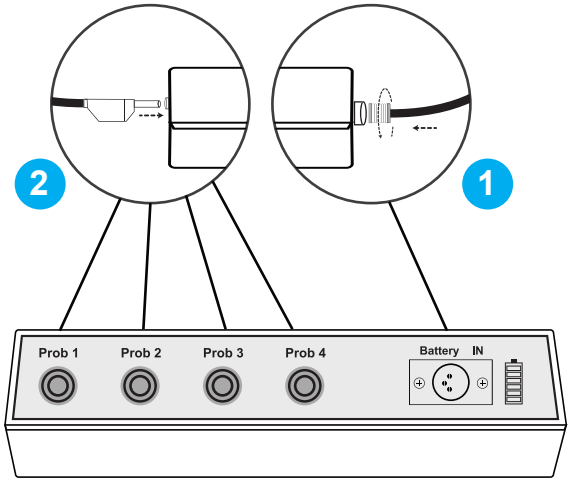
Cord Reels

4 Cord reels designed to facilitate the connection process during the scans. High quality wires to ensure durability and conductivity.



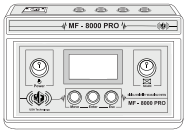
Battery Charger

INPUT : 220 v~ AC
OUTPUT: 20 v -- DC
Connect to the battery pack to recharge.

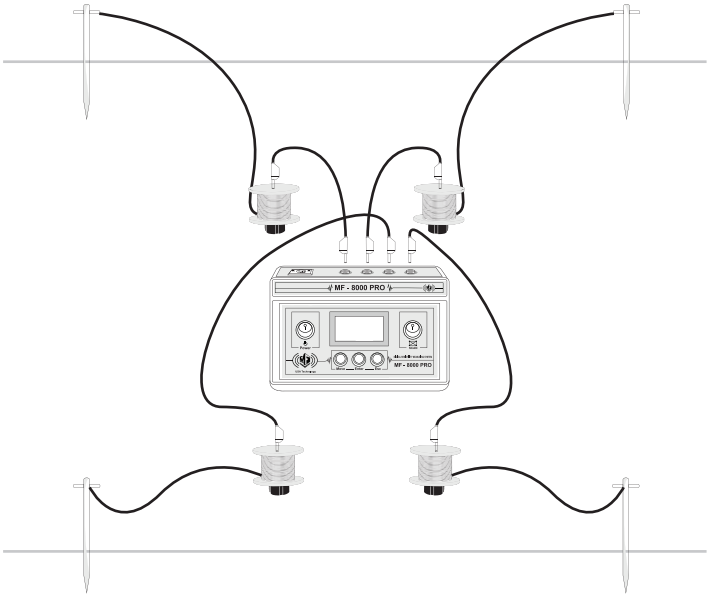


1. Connect the Batter Pack to the Socket as shown in the figure

2. Connect the cords to the sockets, then to the probes using the aligator clips



Ditrbute the probes to the scan area squarly. make sure the distance is equal in depth and distance. Plant them as shown in the figure.

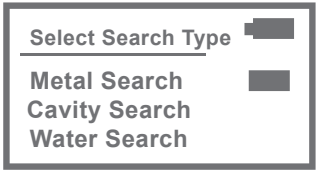


Important Note

To ensure best results make sure the area where the probe is planted is wet, otherwise pour some water onto the probe.

❖ Turn the device on by switching the power switch to ON.

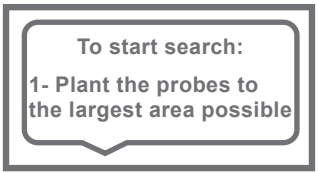
❖ After the splash screen flashes these options will appear on the display:

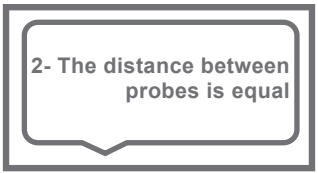


❖ The user must select the search type:
Metal search, Cavity Search, or Water Search.

After selecting the Search type the device will show the instructions on the display
As shown below.

- Note: once the instruction is read press (MOVE) to go to the next instruction





3- switch SCAN

❖ Once all the instructions are read, switch SCAN to start the search between the search poles.

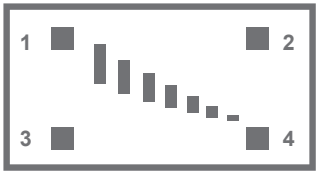
❖ The display will show an illustration for the probes positions 1-2-3-4.
To avoid confusing results the user must plant the prbes according to the figure

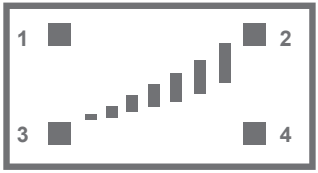
❖ The scan process will be displayed on the screen as shown below

1
2
3
4

1
2
3
4

1
2
3
4


1
2
3
4


1
2
3
4

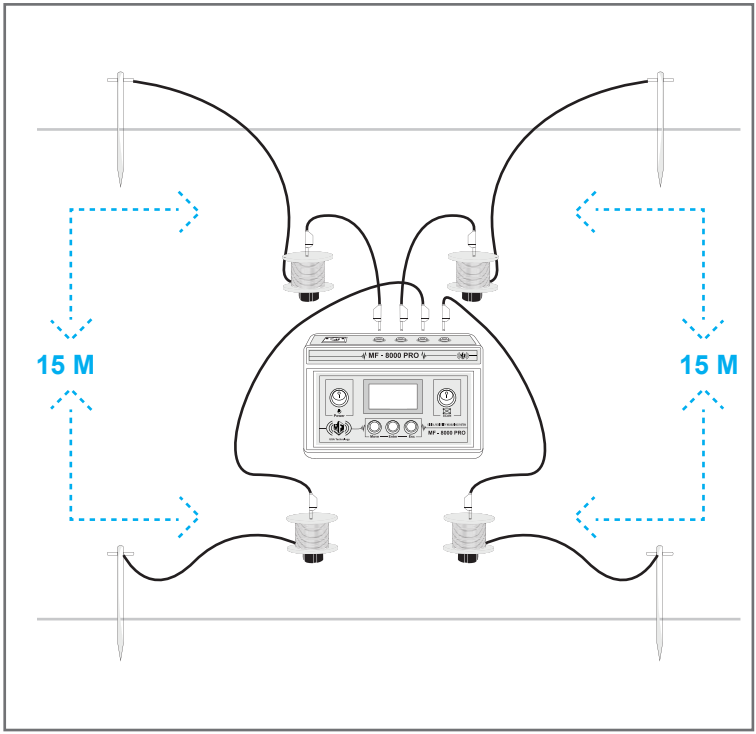
Important Note

To reset the settings or to rescan press (Esc) to initiate the device and start the search over again.

- If there is a target in the search area the device will show the nearest probe to the target after the automatic search is finished.

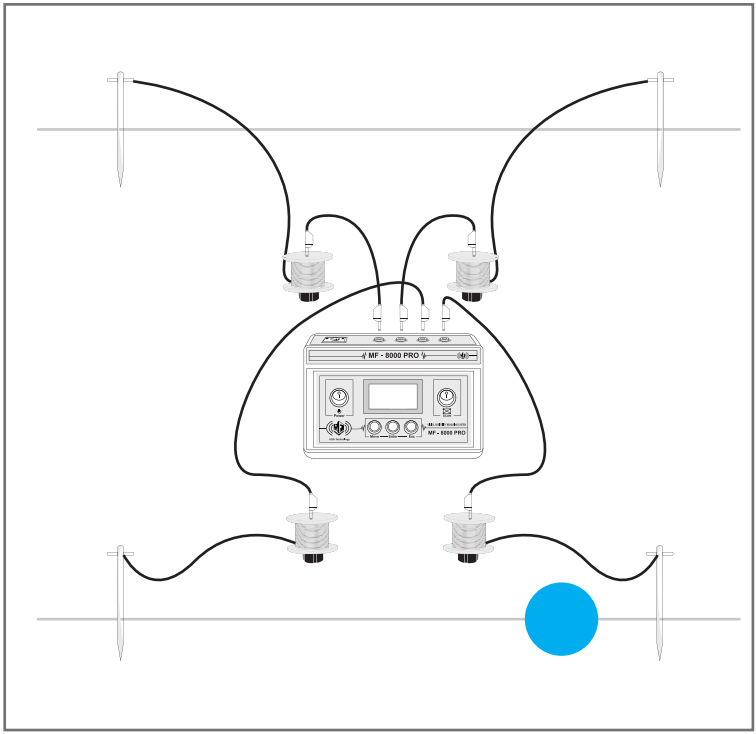
Full Example

First: Distribute the probes squarely on the search area as shown in the figure below:

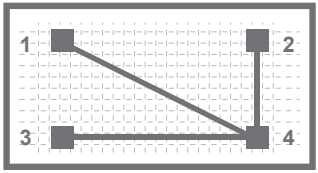


Full Example

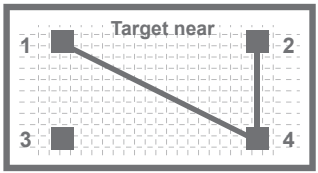
if there is a target for example near probe 4 as shown in the figure below:



After the automatic search is finished as mentioned earlier two results will appear on display.
The first result shows the target exsistance and postion between the probes.
The sceond result shows the nearst prob to the target.

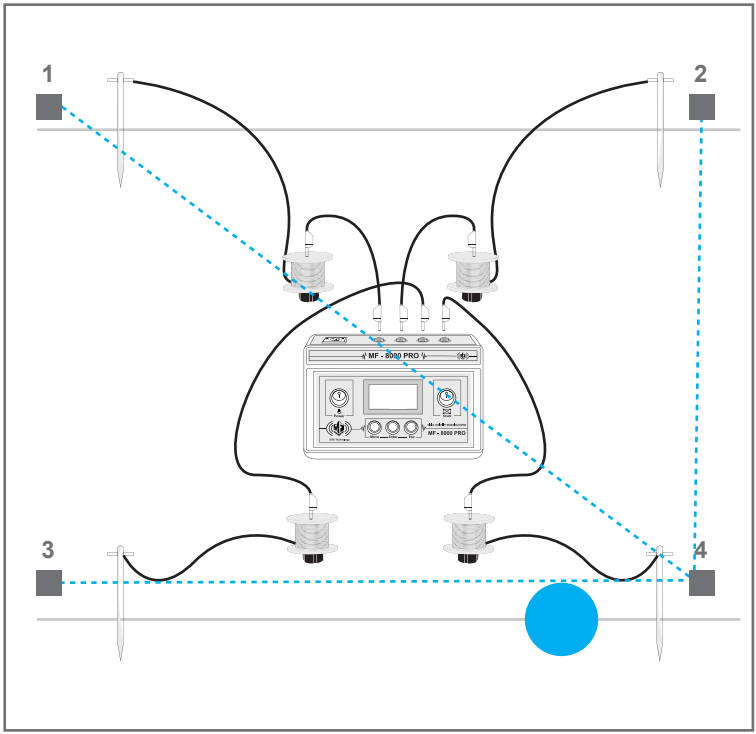


First Result



Second Result

The second result shows the nearest probe to the target, which in this example is probe number 4, the user must enclose target by the probes on


1
2
3
4
MF - 8000 PRO

The shown result in the example indicates the existence of target between the probes 1-4 and 2-4, which is the bottem right corner of the search area

The enclosing sterps are:

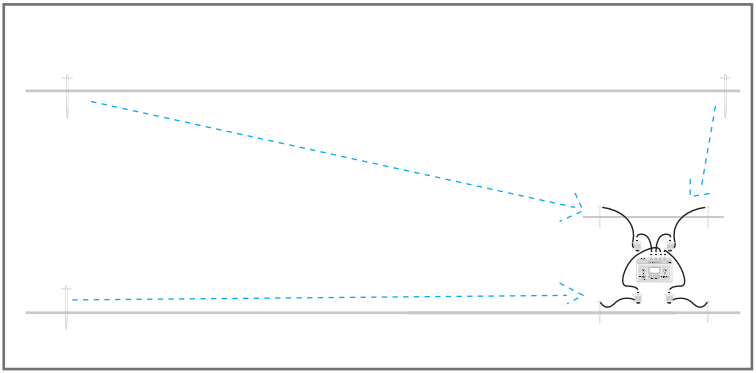
First: Stopthe scan by switch (SCAN) of turn off the device

Second: Draw the probes closer to the nearest probe to target

Important Note:

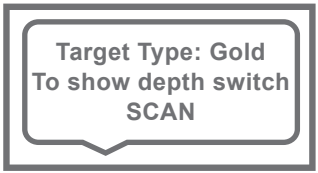
If the search area is large, it is prefered to switch off the device before moving the probes, but if the search area is not large, switch (SCAN) off then move the probes the switch it back on to avoid resetting the settings.

Example: Move the probe 2 towards probes 4 and move the probe 3 towards probe 4, and make sure that the distance is equal, and move the probe 1 to the fourth vertex forming a square.

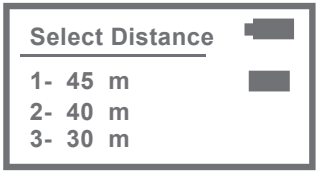


- Third: rescan again using the same settings for the first scan, then switch on (SCAN) to start the scan and wait for the result
- Fourth: If the target enclosed successfully the next result will appear on display:

Meanwhile, the device will be processing and calculating the scan date to show the result to the user about the discovered target as shown below:

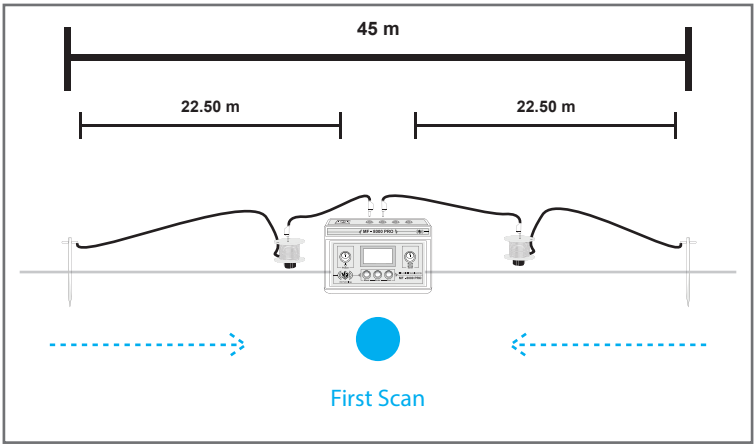


After determining the target type the device program will go to the depth determination program which require to switch (SCAN), and the the below message will appear:

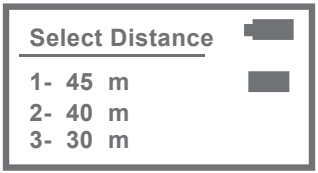


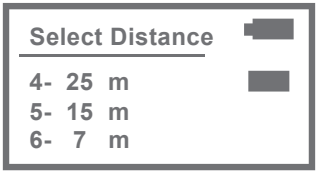
Follow the instructions to determine the depth using Probes 1 and 2.

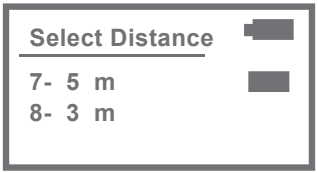
The displayed distances in the list is for the whole distance between the probes



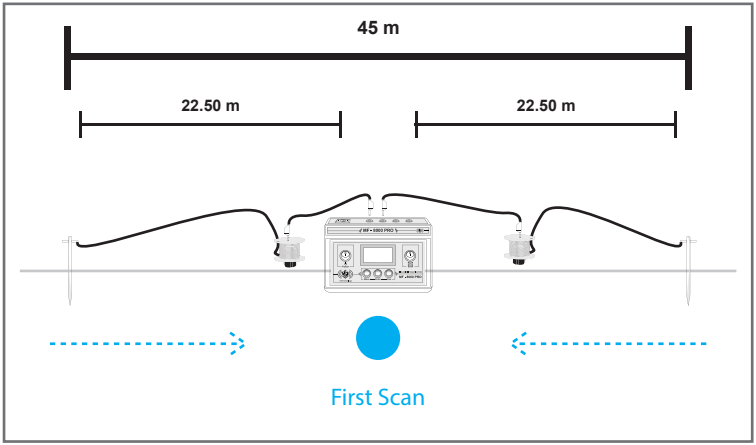
Eight scans must be done according to the list below. Reduce the distance equally from both ends (probe 1 and probe 2). Maintaining the target in the middle.

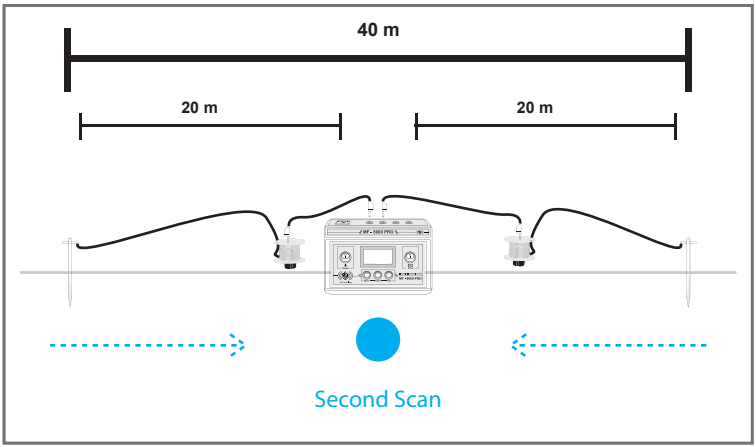


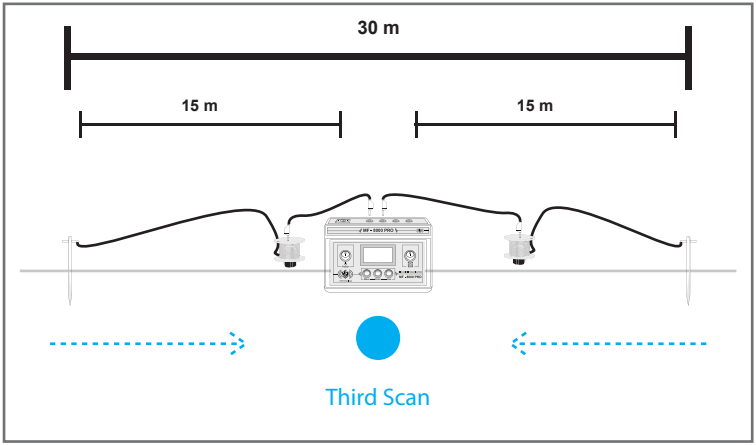




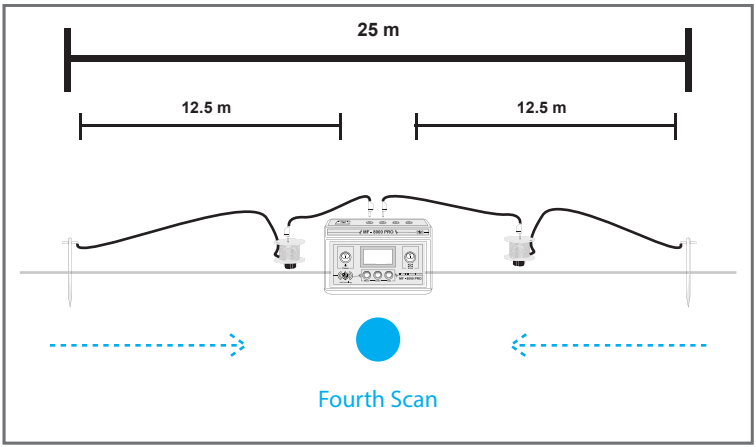
The figures will explain how to measure the depth gradually from the maximum distance to the minimum distance according to the data and options on the display.


45 m
22.50 m
22.50 m
First Scan

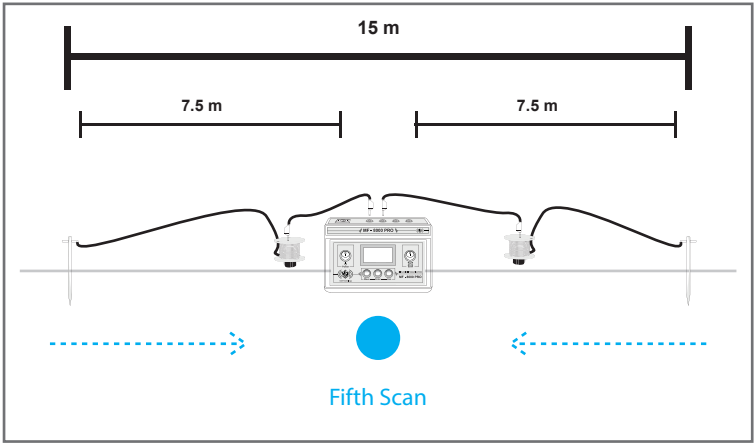

40 m
20 m
20 m
Second Scan



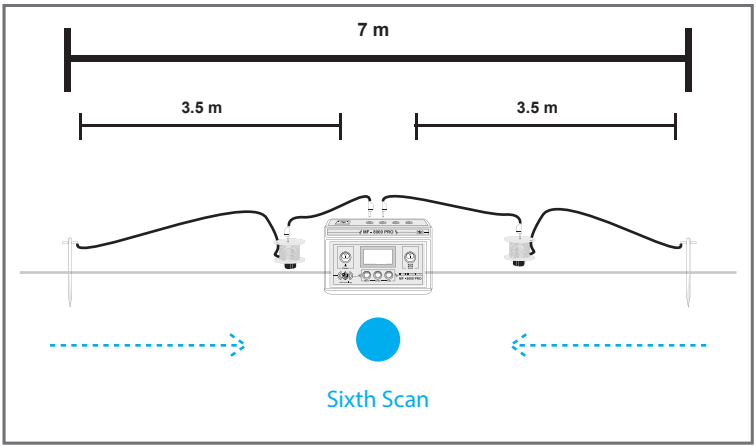
Third Scan



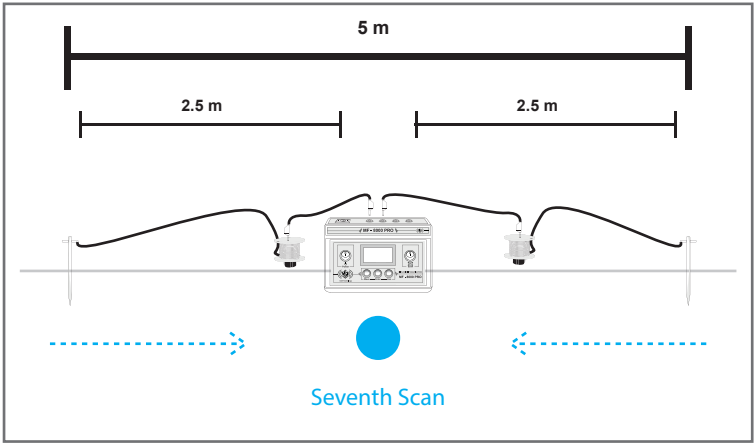
Fourth Scan



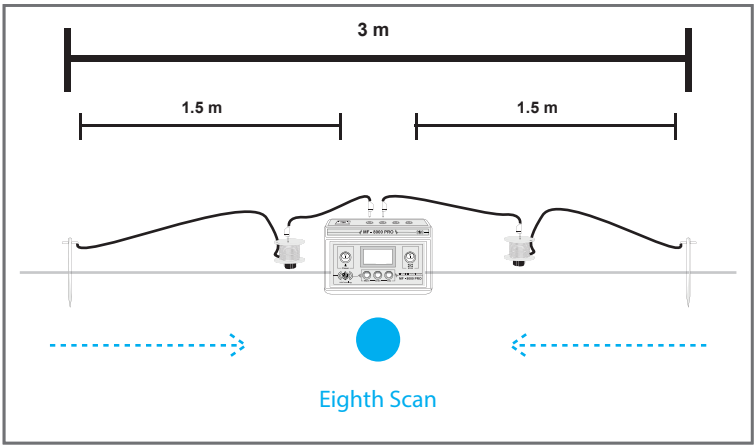
Fifth Scan



Sixth Scan

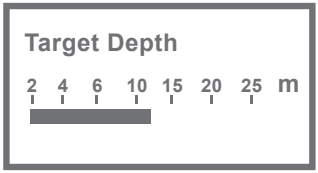


Seventh Scan



Eighth Scan

The target depth result will appear after finishing the scans as shown below:



After the target depth meesage the next message will appear: